

- a) extracting Asiasari Radix with a lower alcohol mixed with water;
- b) adjusting the pH to 2-4 with acid;
- c) extract the solution in step b) with an equal volume of chloroform;
- d) isolating a chloroform insoluble fraction;
- e) adjusting the pH of the solution in step d) to 9-12 with NH₄OH;
- f) subjecting the solution in step d) to an extraction with equal volume of a chloroform:methanol mixed solvent; and
- g) isolating and extracting a methanol insoluble fraction from step f) and fractionating the same with methanol to obtain the Asiasari Radix extracts which are methanol soluble.
- Sub B.7
- Q8

12. (Amended) A composition for improving memory containing a chloroform fraction of Asiasari Radix extracts obtained by the following sequential fractionation procedure: subjecting Asiasari Radix to extraction with a lower alcohol having between 1 carbon atom and 4 carbon atoms or organic solvent, the resulting Asiasari Radix extract being solublized in a methanol:water mixed solvent, having a pH adjusted to 2-4 with acid and subjected to extraction with equal volume of chloroform to obtain a chloroform fraction of Asiasari Radix extracts.

Concluded

14. (Amended) The composition for improving memory of Claim 12, wherein the composition further contains carriers, excipients and diluent.

Q9 15. (Amended) The composition for improving memory of Claim 12, wherein said the composition administered via a formulation selected from the group consisting of an oral preparation containing powder, tablet, capsule, suspension, syrup, aerosol, topical agent, suppository and sterile injection.

Please add the following NEW claims:

16. (New) A method for protecting brain cells against damage caused by excitatory amino acids and oxidative stresses in a mammal comprising administering to said mammal a therapeutic amount of an extract derived from Asiasari Radix.

Q10 17. (New) The method of Claim 16 wherein said extract of Asiasari Radix is administered in an amount of at least 0.1 mg.

18. (New) The method of Claim 16 wherein said extract of Asiasari Radix is administered in an amount no greater than 500 mg.

19. (New) The method of Claim 17 wherein said extract is administered on a daily basis.

20. (New) The method of Claim 18 wherein said extract is administered on a daily basis.

21. (New) The method of Claim 16 wherein said extract is administered to said mammal via a route selected from the group consisting of oral administration, topical application, sterile injection, inhalation and rectal administration.

22. (New) The method of Claim 16 wherein said extract is concurrently administered with a pharmaceutically acceptable carrier, excipient or diluent.

23. (New) The method of Claim 16 wherein said administration comprises combining said extract with a beverage and orally administering said beverage.

24. (New) The method of Claim 16 wherein said administration comprises combining the said extract with a foodstuff and orally administering said foodstuff.

25. (New) A method for inhibiting AMPA-induced depolarization of a neuronal cell of a mammal comprising administering to said mammal a therapeutic amount of an extract derived from Asiasari Radix.

26. (New) The method of Claim 25 wherein said extract of Asiasari Radix is administered in an amount of at least 0.1 mg.

27. (New) The method of Claim 25 wherein said extract of Asiasari Radix is administered in an amount no greater than 500 mg.

28. (New) The method of Claim 26 wherein said extract is administered on a daily basis.

29. (New) The method of Claim 27 wherein said extract is administered on a daily basis.

30. (New) The method of Claim 25 wherein said extract is administered via a route selected from the group consisting of oral administration, topical application, sterile injection, inhalation and rectal administration.

31. (New) The method of Claim 25 wherein said extract is concurrently administered with a pharmaceutically acceptable carrier, excipient or diluent.

32. (New) The method of Claim 25 wherein said administration comprises combining said extract with a beverage and orally administering said beverage.

33. (New) The method of Claim 25 wherein said administration comprises combining the said extract with a foodstuff and orally administering said foodstuff.

34. (New) A method of facilitating tyrosine phosphorylation of a hippocampal protein of a mammal comprising administering to said mammal a therapeutic amount of an extract derived from Asiasari Radix.

35. (New) The method of Claim 34 wherein said extract of Asiasari Radix is administered in an amount of at least 0.1 mg.

36. (New) The method of Claim 34 wherein said extract of Asiasari Radix is administered in an amount no greater than 500 mg.

37. (New) The method of Claim 135 wherein said extract is administered on a daily basis.

38. (New) The method of Claim 36 wherein said extract is administered on a daily basis.

39. (New) The method of Claim 34 wherein said extract is administered via a route selected from the group consisting of oral administration, topical application, sterile injection, inhalation and rectal administration.

40. (New) The method of Claim 34 wherein said extract is concurrently administered with a pharmaceutically acceptable carrier, excipient or diluent.

Q10 41. (New) The method of Claim 34 wherein said administration comprises combining said extract with a beverage and orally administering said beverage.

42. (New) The method of Claim 34 wherein said administration comprises combining the said extract with a foodstuff and orally administering said foodstuff.

43. (New) The method of Claim 34 wherein said hippocampal protein comprises an insulin receptor.

44. (New) A method of inhibiting cholinesterase activity in the brain of a male comprising administering to said mammal a therapeutic amount of an extract derived from Asiasari Radix.

45. (New) The method of Claim 44 wherein said extract of Asiasari Radix is administered in an amount of at least 0.1 mg.

46. (New) The method of Claim 44 wherein said extract of Asiasari Radix is administered in an amount no greater than 500 mg.

47. (New) The method of Claim 45 wherein said extract is administered on a daily basis.

48. (New) The method of Claim 46 wherein said extract is administered on a daily basis.

49. (New) The method of Claim 44 wherein said extract is administered via a route selected from the group consisting of oral administration, topical application, sterile injection, inhalation and rectal administration.

Q10 50. (New) The method of Claim 44 wherein said extract is concurrently administered with a pharmaceutically acceptable carrier, excipient or diluent.

51. (New) The method of Claim 44 wherein said administration comprises combining said extract with a beverage and orally administering said beverage.

52. (New) The method of Claim 44 wherein said administration comprises combining the said extract with a foodstuff and orally administering said foodstuff.

IN THE DRAWINGS:

Please substitute originally-submitted Figure 13 with new Figure 13 provided herewith. Applicant respectfully submits that new Figure 13 does not introduce new matter, and is provided to